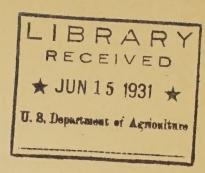
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EXUREP



RESEARCH PROJECTS IN HOME ECONOMICS

Receiving Federal Support

at the

AGRICULTURAL EXPERIMENT STATIONS

1930-1931

Compiled by

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U. S. Department of Agriculture

#### EXPLANATORY NOTE

This list of research projects in home economics has been compiled from the programs of work for 1930-31 submitted by the directors of the state agricultural experiment stations to the Office of Experiment Stations, together with later projects approved by the office through November 1, 1930. The list consequently includes only projects receiving Federal support, in most cases from funds available under the Purnell Act. Unless otherwise stated, the projects are being conducted in the home economics departments of the land-grant colleges and universities with which the experiment stations are connected or in home economics research departments within the stations. No attempt has been made to list all research projects having a bearing upon home economics which are conducted in other departments, although in a few instances such projects have been included. (For a complete list of station projects see A Classified List of Projects of the Agricultural Experiment Stations, 1930, Miscellaneous Publication 89, U. S. Department of Agriculture).

In the present list of home economics projects, cooperation with other departments within the station is designated by the name of the department and participation in the National Cooperative Projects as follows:

- N. C. P. 3-The vitamin content of food in relation to human mutrition.
- N. C. P. 4-Rural home management studies.
  - I. Food consumption and excenditures of farm families.
  - II. Present use of time by farm home makers.
  - III. Efficiency studies of the household plant.
  - IV. Standards of living and expenditures of farm families.
- N. C. P. 6--Factors which influence the quality and palatibility of meat.

In the case of joint projects between two or more departments, the financial support given is only the appropriation to the home economics department. Information concerning State support is incomplete.

### RESEARCH PROJECTS IN HOME ECONOMICS

#### 1930-1931

		Encountries and Controls of American States and Controls of the	phonon description and part that I down consider the part to the		
Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support
				Furnell	State
Ala.	A study of the calcium	E. R. Bishop		\$4,400	
	and phosphorus content of		2 1 4		
	various vegetable foods grown in Alabama.	t t	t t	1 1	
	3/24/30		•		
Ariz.	The vitamin A,B,C,D, and	M.C. Smith &	N.C.P. 3	925	
	G content of several vari				**
	eties of Arizona dates.	t			
II .	6/23/28 The value of the Ariz-	M. C. Smith		720	
	ona sorghums-hegari and	•	•	120	
	yellow milo-compared with	t t			
	yellow corn as sources of	,			1.4
ff	vitamin A. 6/23/28  The effect of sunlight	M.C. Smith	Agronomy	1,850	
	in the curing process up-	1	1	1,000	
	on the vitamin A and D	( ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	11.		
10.	content of alfalfa hay. 6/23/28				
Ħ	The relation of nutri-	M. C. Smith,		2,375	
	tion to "mottled enamel"	3. C. Waite,		1	
	endemic in certain Ariz-	& E. Lantz			
	ona communities. 7/10/30		1	đ -	
Ħ	The biological value of	M. C. Smith	7	2,480	
	the Regari proteins and	& E. Lantz			
7.5	the supplemental value of certain protein concentra		!		
	7/10/30	, ous.			
		1		1	
Ark.	The effect of vitamin B deficiency on the carbo-	B. Sure & M. E. Smith	Agr. Chem.	3,400	
	hydrate and nitrogen me-	N. M. D. H. O.H.		t 1 4	
i 6	tabolixm of nursing			£ 6	
4	young. 5/23/28	•		1	
, H	The effect of high pro-	B. Suro &	Agr. Chem.	1,600	200
	tein levels on renal function during gesta-	Z. C. Battey		1	
	tion and lactation.		1	1	
I L	3/18/30			s L	

Station	Title of project and date of approval	Froject	Cooperation	Financial	support
	and case of a storat			Purnell	State
Calif.	The effect of method of drying on vitamin content: of fruits. Subproject.—The content of vitamins A,B,C, and D in peaches and crunesfresh, sun dried, sun dried and sulfured,		N. C. P. 3	1,600	1,000
Colo.	evaporated, evaporated and sulfured. 10/13/27  Baking of flour mixture at high altitudes.  Part II. Physico-chemical factors. 10/4/26	Allison &		5,000	
Conn. (Storrs	Factors that determine standards of living in farm homes.  A.—Factors and conditions affecting the amount and use of family income and expenditures among a selected group of families in the East-		N.C.F. 4, IV	700	
	ern Fighland. 6/24/27  B.—An economic analysis of the food consumed by a selected group of families in the Eastern Highland. 6/24/30			4,300	
Fla.	Determination of whether chlorophyll, chlorophyll alpha and beta, and the petroleum-ether extracts of the yellow pigments of alfalfa can be used as a source of vitamin A in animal nutrition. 1/25/26  Revised 5/5/27		N.C.P. 3	3,000	200

Station	Title of project and date of approval	Project leaders	Cooneration	Financial	support
				Purnell	State
Fla.	Determination and iden- tification of the organ-	O. D. Abbott		1,700	100
	isms which cause spoil- age of canned vegetables in the South. 2/17/26				* 1
e ff	A study of some of the constituents of citrus fruits, roselle and	L. W. Gaddum	***	4,500	100
	guava: pectins, oils, and glucosides.				.4
n	2/17/26 Revised 7/2/29 The relation of growth to phosphorus, calcium,	C. F. Ahmann		4,300	100
	and lipin metabolism as influenced by the thymus. 5/6/29				
Ga.	Vitamin content of widely used Georgia	C. Newton	N.C.F. 3	5,300	
11	foods. 7/3/25 Studies in nutritional anemia. 7/30/30	L. Ascham		3,530	
Ħ	A study of the growth of preschool children in an institution of	L. Ascham		885	
п	Georgia. 3/8/29 Standard of living study.	E. Jones		2,805	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Hawaii	Vitamin determinations in Hawaiian foods and	C. D. Miller	N.C.P. 3	1/2,400	
	feeds (oranges, tomatoes, Chinese cabbage, avocado oil). 5/31/29			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

<sup>1/</sup> Hatch funds.

	Title of project and date of approval	Project leaders	Cooperation	Financial	support
		art.		Purnell	State
Hawaii	Chemical and biological studies of the proteins	C. D. Miller		1/2,200	
*					
TI .	The avocado: Chemical studies with special	E. Harrold <u>2</u> /		1/ 400	
	reference to the factors inhibiting its success-ful commercial preser-				e d d t t d T e
n .	vation. 5/31/29 Avocado: Chemical studies of the bitter-	L. N. Bilger 2	y	1/ 700	8 1 6 4 8 9 6
	ness which develops on heating for canning. 5/27/30				1
19	Avocado: Study of the sterol content and vitamin value of the avocado oil. 5/27/30			1/ 700	\$ 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Idaho	A study of the methods of vegetable storage now	E. Woods		300	4 6 1 1 1 1 1 1 1
Ħ	in use. 11/26/27 A study of the conditions determining suc-	E. Woods & C. C. Vincent	Horticulture	300	1 6 1 1 1 1 1 1
	tatoes, carrots, cauli- flower, and cabbage.		; ; ; ; ; ;		t t t t t t t t t t t t t t t t t t t
n	11/26/27 The effect of storage upon the vitamin C content of the Russet Bur-	E. Words	N.C.F. 3	3,750	t
	bank potatoes of Idaho.				t t t t t t t t t t t t t t t t t t t
I11.	The vitamin B (F or B <sub>1</sub> ) of rice. 12/19/25 Revised 10/26/29	C. R. Meyer & J. Smith	N.C.P. 3	700	1 1 1 1 1

<sup>1/</sup> Hatch funds. 2/ Division of Chemical Investigations.

	1	The second secon			
Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support
				Furnell	State
Ill.	The vitamin B (F or B <sub>1</sub> ) and the vitamin G (B <sub>2</sub> or	C.R. Meyer & J. Smith	N.C.P. 3	1,036	
ff	P-7) of orn. 12/19/25 Revised 10/26/29 Whole corn and some of	M. Plant	N.C.T. 3	200	
	its milling products as a source of the vitamin 3 and G requirements of				*
- n	Revised 10/26/29 Vitamin B (F or B <sub>1</sub> ) and	C. R. Meyer	N.C.P. 3	450	o €
	vitamin G (B2 or P-P) in the oat kernel and its milling products.				
n	12/19/25 Revised 10/26/29 The vitamin B (For B <sub>1</sub> )	C. R. Moyer &		1,500	
•	and the vitamin G (B <sub>2</sub> or P-P) requirements for lactation. 10/26/29	J. Smith		2,000	
Ħ	Home accounts for the family on the farm and in the small town.	R. A. Wardall & R.C.Freeman		1,800	
Ħ	4/7/28 A study of wheat flours milled in Illinois in	R.A.Wardall & S.Woodruff		1,720	
Ħ	relation to their use in boking. 1/3/27 The effect of modified	H. T. Barto &		300	
	diet and controlled ex- ercise on body weight and physical fitness in	S.C. Munger			
	overweight college women, 7/3/30 Project not yet sub-			1,000	
Ind.	A study of ovens used	G. Redfield	N.C.F. 4,III		
n	for domestic cooking purposes. 6/20/29 A study of efficient	G. Rodfield	N.C.P. 4,III	6,085	
	kitchen arrangement. 5/23/30			,	

Station	Title of project and date of approval	Project leaders	Cooperation .	Financial	support
				Purnell	State
Iowa	The application of electricity in the farm	H. A. Sayre	N.C.P. 4, III Agr. Engin-	1,900	
	home. a. Cooking with electricity. c. Design		eering		_
	and construction of electric diswasher.				
n	10/3/25 Nutrition studies with	M. Gunson		1,850	
	meats. 3/1/26 Subproject.—Some diet—				
	ary factors affecting lactation in albino				31
Ħ	rat. Vitamin content of	M. H. Irwin &	N.C.P. 3	4,100	
	vegetables as affected by cultural methods,	E.S. Haber	Vegetable Crops		
	degree of maturity, and storage. 3/1/26				
<b>11</b>	A study of the influ- ence of age on the	F.M. Nelson	N.C.P. 6	50	
	quality and palatability of beef (cooking of	Mi.D. Helser	Animal Hus- bandry		
	beef for quality and palatability tests).		Art Min W		
n	5/1/26 Studies of consump-	E. E. Hoyt &	N.C.P. 4, IV	1,200	
	tion habits of Iowa farm families. 3/22/26		1,1,	1,200	
n	Quantitative analytical chemical methods for	R. Edgar, O.R. Spencer	Textile Chemistry	1,380	
	textile fibers.	& M. Weston	onemistry.		-
Kans.	Utilization of calcium	M Vromon &		1,233	
*	and phosphorus from fresh, dried, and evap-	R. McCammon		1,200	
N	orated milk. 7/3/25 Vitamin content of cab	M Vromor &	N.C.P. 3	3,166	
	bage, sauerkraut, rel-	R. Mc Cammon	11.0.1. 2	5,100	
8 8 6 6	ishes, celery, cabbage, cherries, pears, peaches	,		1 4 4 1	
1 0 1 1	rhubarb, and string beans. 7/3/25			8 9 8 8	
				•	

	The state of the s	and the second s		-	
Station	Title of project and date of approval	Project	Cooperation	Financial	support
				Purnell	State
Kans.	Influence of feed on cooking quality of meat of grass fed cattle (tenderness and color of cooked beef from grass fed steers and similar	M. Kramer	N.C.P. 6 Animal Hus- bandry	900	, , , , , , , , , , , , , , , , , , ,
n .	animals). 5/29/26  Protective value of certain clothing fabrics against (1) heat and cold and (2) against sunburn. 7/3/25  (3) Against heat loss	K. Hess, &	Physics.	3,166	1
f1	when air is in motion.  Comparison of electric and nonelectric equipment for the farm home.  11/27/28	M.F. Taylor	N.C.P. 4, III	2,250	9 6 6 7 7 1 1 1 2 4 4
Ky.	The metabolism of obes- ity. 10/20/25	S. Erikson	t f i t d	700	· · · · · · · · · · · · · · · · · · ·
ti	The vitamins of mustard greens. 10/21/26	S. Erikson	N.C.P. IV	100	6 1 1 1 1
Ħ		S. Erikson	1 1 1 1 1 1 1 1 1	200	
H.	Studies of the anti- rachitic potency of the sun's rays at the lati- tude of Kentucky, in- cluding antirachitic po- tency of eggs, as af- fected by exposure of hens to sunlight and ultra-violet light at different seasons of the year, comparative anti- rachitic value of brown shell and white shell eggs, effect of storage on antirachitic value and on beating and bak- ing quality of whites of eggs. 7/1/27	J. H. Martin,  S.E. Erikson,  R. Boyden, &  W.M. Insko	Poultry Hus- bandry N.C.P. 3	3,700	

Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support
		, ,	,	Purnell	State
Ky.	Use of time by rural homemakers for house-hold tasks from stand-point of equipment used and method employed and relationship of income and total expenditure to expenditure for house-hold equipment.  7/22/29	S. Erikson	N.C.P. 4, II & IV. Farm Economics	100	
11	An economic and social study of an eastern Kentucky mountain county (Knott County). 7/23/30	W. D. Nicholls & S. Erikson	Farm Economics N.C.P. 4, IV	500	
La.	The antirachitic effect of acidophilus milk. 11/19/28	G.Sunderlin	N.C.P. 3	3,880	
Maine	The iron content of edible wild greens of	P.S. Greene		675	
\$\$	Maine. 5/13/27 The economic utilization of electricity in food preparation in Maine rural homes.  1. The selection of electrical cooking equipment and utensils	P. S. Greene	N.C.F. 4, III	2,735	
: : : : : : : : : : : : : : : : : : :	as related to the cook- ing needs of Maine rural families, to first cost, and to current			i 1 1 2 2 2 1	•
1	consumption.  2. To discover the changes and adaptations of typical cooking habits and processes necessary to prepare typical memus with economic consumption of current.  6/5/28				

Title of project and date of approval	Project leaders	Cooperation	Financial	support
		1	Purnell	State
in cooking quality of potatoes: (1) Measurement of culinary properties of the potato, (2) the relation of storage temperatures of potatoes to color in potato chips (3) effect of disease on the culinary propertie			3,040	:
Factors affecting food consumption habits of farming people in Mary-	M. Mount, &	N.C.P. 4, I	3,800	
Present practices of Mass. elementary rural schools with regard to school feeding and transportation and their effects upon health of	E. S. Davies		390	
The comparative values of milk and tomato as supplementary feeding in a rural elementary	M. Voorneveld		5,230	
The value of evaporated	E.S. Davies &	Evaporated Milk Assoc.	1,720	1/3,600
		N.C.P. 3	3,000	
(1) 16 16 16 16 16 16 16 16 16 16 16 16 16	The causes of variation in cooking quality of potatoes: (1) Measurement of culinary properties of the potato, (2) the relation of storage temperatures of potatoes to color in potato chips (5) effect of disease on the culinary propertie of potatoes. 8/13/29  Factors affecting food consumption habits of farming people in Maryland. 5/25/29  Present practices of Mass. elementary rural schools with regard to school feeding and transportation and their effects upon health of pupils. 10/14/27  The comparative values of milk and tomato as supplementary feeding in a rural elementary school. 8/23/29  The value of evaporated milk for school food service. 6/3/30  The vitamin content of some commercially canned vegetables and fruits.	The causes of variation in cooking quality of potatoes: (1) Measurement of culinary properties of the potato, (2) the relation of storage temperatures of potatoes to color in potato chips (3) effect of disease on the culinary properties of potatoes. 8/13/29  Factors affecting food consumption habits of farming people in Maryland. 5/25/29  Present practices of Mass. elementary rural schools with regard to school feeding and transportation and their effects upon health of pupils. 10/14/27  The comparative values of milk and tomato as supplementary feeding in a rural elementary school. 8/23/29  The value of evaporated milk for school food service. 6/3/30  The vitamin content of M. Dye & some commercially canned N. Halliday vegetables and fruits.	The causes of variation in cooking quality of potatoes: (1) Measurement of culinary properties of the potato, (2) the relation of storage temperatures of potatoes to color in potato chips (5) effect of disease on the culinary properties of potatoes. 8/13/29  Factors affecting food consumption habits of farming people in Maryland. 5/25/29  Present practices of M. Mount, & V. Kellar schools with regard to school feeding and transportation and their offects upon health of pupils. 10/14/27  The comparative values of milk and tomato as supplementary feeding in a rural elementary school. 8/25/29  The value of evaporated milk for school food service. 6/3/30  The vitamin content of M. Dye & N.C.P. 3  N.C.P. 3  N.C.P. 3	The causes of variation in cooking quality of potatoes: (1) Measurement of culinary properties of the potato, (2) the relation of storage tomperatures of potatoes to color in potato chips (5) effect of disease on the culinary properties of potatoes. 8/13/29  Factors affecting food consumption habits of farming people in Maryland. 5/25/29  Present practices of M. Mount, & farming people in Maryland. 5/25/29  Present practices of M. Mount, & S. Davies M. School feeding and transportation and their offects upon health of pupils. 10/14/27  The comparative values of milk and tomato as sumplementary feeding in a rural elementary school. 8/23/29  The value of evaporated M. Voorneveld M. Pariam school food Service. 6/3/30  The vitamin content of M. Dye & N.C.P. 3 3,000  The vitamin content of M. Dye & N.C.P. 3 3,000  The vitamin content of M. Dye & N.C.P. 3 3,000  The vitamin content of M. Dye & N.C.P. 3 3,000

<sup>1/</sup> Evaporated Milk Association.

Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support
				Purnell	State
Mich.	The vitamin A and D content of certain blanched and unblanched vegetables. 6/25/26 Subproject.—The effect	M. Dye, J. W. Crist,& F. Hanning	N.C.F. 3 Horticulture	1,000	t t t t t t t t t t t t t t t t t t t
19	of cooking on the vita- min A content of green and blanched asparagus. The effect of the anti- rachitic factor and ultra-violet irradia- tion on the calcium me- tabolism of women.	M.Dye & M. Bray		1,000	t t t t t t t t t t t t t t t t t t t
ff .	6/25/26 The effect of variations in the nutrition of leaf lettuce on its	J. W. Crist, M. Dye, &	N.C.P. 3 Horticulture	2,000	6 1 1 1 1 1 6 6 6 6 6 7
<b>11</b>	vitamin A content 10/12/27 Determination of the food requirements of children. (1) A quanti- tative study of the food intake of normal pre- school children. (2) The protein requirements of the preschool child. (3) The mineral requirements of the preschool child. 11/1/28	F. Hanning  M. Dye &  M. Bray		3,500	
Minn.	The relation of diet to blood regeneration. Subproject 1. The influence of vitamins on the rate of blood regeneration. 8/7/25 Subproject 2. The distribution of nitrogenous constituents of the	J.M.Leichsen- ring & A. Biester		1,900	

Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support
				Purnell	State
Minn.	Quality tests for study ing pork cuts. 11/9/25	- A. Child	N. C. P. 6 Animal Hus-bandry	925	
Ħ	Revised 1/6/30 A study of bound and free water in meat. 10/4/28	A. Child	4 ( 1 1 1 1 1 4	925	
Ħ	Factors affecting the selection, care, and wearing qualities of textile materials.  Subproject 1. A study of fiber quality and physical qualities in relation to cost of staple wool materials.  (Wool serges and garbadines).  3/1/28	E. L. Phelps		1,250	
Miss.	Iron studies: (1) Conservation of iron in vegetables through methods of preparation and cooking. 5/20/27	O. Sheets		2,500	
ff	Expenditures for cloth- ing of families living in rural areas of Miss- issippi. 6/8/28		N.C.P. 4, IV		
	A study of living conditions of boarding students in agricultural high schools of Mississippi. I. Food consumtion and expenditures. II. Housing and social conditions.  5/8/28	:	N.C.P. 4, I	2,500	

Station	Title of project and date of approval	Project leaders	Cooperation	Financia	l support
0 6 6 6 8 9	· ! ! ! ! !		: : : :	Purnell	State
Miss.	Studies on nutritional anemia. — I. The effect of feeding green leafy vegetables on nutrition— al anemia as compared			3,000	
6 f d	with feeding liver. II. The separation and iso-	1971 17		4 4 8	
	lation of the substances in green leafy vegetables			1	
1	which are effective in		1 	\$ 4 \$ 1 \$ 1	Ô
1 6 1 6 7 4	the treatment of nutri- tional anemia. III. The effect of feeding sor- ghums and ribbon cane			2,000	
4 7 8 8 0 1 1	syrups on nutritional anemia. 8/29/29			1	
Mo.	A study of the effect of temperature and time of cooking on quality and palatability of meat	J. A. Cline	N.C.F. 6	1,600	
ft	6/10/26 Influence of methods of handling foods on their vitamin content, and the relation of food to the vitamin deficiency diseases. 7/1/26	M. C. Hessler	N.C.F. 3		
	Revised 7/29/29  A. Vitamin content of			100	7
	Bloomsdale spinach.  D. Witamin A and D con-				
:	tent of January and June			900	*
1	eggs from different breed C. Effect of fruit acids on rickets.	·S•		800	
1 1 1 1 1 1 1	D. The vitamin A, B, and G content of sweet potatoes.			950	

Station	Title of project and date of approval	Froject leaders	Cooperation	Financiál	support
				Purnell	State
Mo.	Durability of cotton fabrics.  I. A study of the durability of white and colored cotton fabrics as affected by wear and			1,000	
	by home and commercial laundering.  II. A study of the reliability of consumer's judgment as to the durability of cotton fabrics. 7/29/29				. 1915a
"Mont.	Food preservation.  1. Vegetables (potatoes, carrots).  9/6/25	J.E.Richardson & D.Douglass		1,340	
ff .	The vitamin content of vegetables in winter storage. 7/30/26 (Vitamins B and C in potatoes and carrots).	J.E.Richardson & D.Douglass	N.C.I. 3	2,835	
fl	Effect of feeds on grade and quality of lamb. 1/25/27 SubprojectInfluence of barley and oats on		N.C.P. 6 Animal Hus- bandry	500	
Ħ	the quality and palatability of lamb. A qualitative and quantitative study of farm homes in Montana. 7/21/27	J.H.Richardson	N.C.P. 4, IV	2,125	
Nebr.	Routine and seasonal work of the house-keeper. 2/11/26	M.R. Clark	N.C.P. 4, II	500	
n -	Kerosene cooking stoves. 2/11/26		N.C.P. 4,III	3,500	
н	Cash contribution of farm homemakers to the family income. 2/14/29		N.C.P. 4, IV	3,000	

Station	Title of project and date of approval	Project leaders	Cooperation	Financia	l support
		:  4  • • • • • • • • • • • • • • • • •	6 6 1	Purnell	State
Nebr.	Washing machine study. 1/29/29	E. B. Snyder & M.P. Brunig	N.C.P. 4,III Agricultural Engineering	1,700	
N. H.	Studies in human nu- trition. Caloric values of foods. 5/21/26		Nutrition Lab. Carnegie Institution	2,250	
N.Mex.	A study of losses incurred in cooking and the factors affecting the palatability of the New Mexico pinto beans; with a later similar study of the Bayo and other varieties of	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>4,</b> 250	
	beans. 11/19/28		f , , , , , , , , , , , , , , , , , , ,		
N. Y. (Cornell)	The vitamin A and vitamin D content of egg yolk and the effect of the food of the hen and other conditions on these factors. 11/11/25 Revised 8/1/28		N.C.P. 3	500	2,708
f1	Management analyses of households. a. Management of family finances b. Management of the family's food. c. Management of the family's clothing and of household textiles.  8/1/28	M. Henry, &	N.C.P. 4, IV	2,050	1,500
91	Fat metabolism: A study of the rates of digestion, of fats as de termined by the chylomicrons of the blood.	E. MacArthur		854	
ß	1/4/29 Cost of living of farm families. 7/25/29	H. Canon & A. Young	N.C.P. 4, IV	1,120	1,550

Station	Title of project	Project	Cooperation	Financial	support
\$ 6 1 6 7	and date of approval	leaders		Furnell	State
	Methods of household ) buying. 7/25/29	H. Canon & M. Fish	N.C.P. 4, IV	2,040	300
n .	Cost of living index for farm families.	H. Canon	and the second s	870	1,300
n :	7/9/25 The plation of the cuality of certain	M. C. Pfund		720	1,000
	fruits and vegetables to wholesale and retail prices in New York		militar productive services of the services of	1 1 2 3 5 6 6	
п	State. 7/24/30 Household buying with special reference to	D. Munroe		2,550	350
ft	foods. 7/31/30 Practices in infant feeding and the physi-			4,485	45.0
	cal development of in- fants. 7/31/30	H. Canon.	f t		6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
N.C.	A case study of factor in the family organiza-	Woodruff,	N.C.P. 4, IV	3,500	100
	tion conditioning the living of farm owners in Wake County;	C.C. Taylor, & W.A. Anderson		1	1 1 1 4 6 1
	6/18/29 Revised 7/17/30				4 8 8 8 4 6 7
N.Dak.	Factors influencing the quality and palatability of meat. Hethods		N.C.P. 6 Animal Hus-	2,600	4 4 6 1
es es	of cooking meats. 8/4/25		bandry		4 5 6 4 7
ff ff	Cleaning equipment. Subproject A.—Dustless mops. 5/5/28	C. Leeby	(N.C.P. 4, TII	2,000	† # 6 5 6 8 4
	The influence of cooking and canning on the content of antineuritic	1	N.C.P. 3 h Animal Nutri- tion	2,500	8 6 6 8 8 9 8
	and antipellagric vita- mins in meats. 11/2/29			· · · · · · · · · · · · · · · · · · ·	6 6 8 2 1 8

<b>S</b> tation	Title of project and date of approval	Project leadors	Cooperation	Financia	l support
				Purnell	State
N. Dak.	A study of the ade-	E.Latzke		800	
	quacy and cost of diets selected by college	in the second		: ( } T	
	students from a college			; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
	cafeteria.				
81 II	11/12/29 The kinds of equip-	A Bales	N.C.P. 4,III	500	4.3
•	ment, fixtures, and fur-	· ·	2,222		
	niture needed in a farm	1		1	
	home kitchen and their location and relative			1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	arrangement. 4/11/30				
Ohio	A study of the cost of	F. R. Tanman &	N.C.P. 4, IV	1,500	
	family living on Ohio	The state of the s	Rural Econom-	1	
n	farms. 8/30/26  Basal metabolism of	Til D Trainmakes (	ics	7 000	
	women 40 to 50 years of	F. R. Lanman & H. McKay		1,000	
F0	age. 10/13/26				
fs .	Seasonal variation in growth of preschool	F.R. Lannan & H.McKay	*	1,000	
	children in Ohio.	, III A KING INCOLON			
Ħ	11/4/26		:		
	The influence of laundering and exposure to	F.R. Lanman & M.E. Griffith	,	2,000	
	light upon wash silks			8 8 8	
	used for outer garments			; ; ;	
		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· .
Okla.	1/ The influence of vitemins A.B.G.C.	R.R. St.Julian		1,757	
	and D upon the coeffi-			1	,
	cients of utilization :				
	of fat, carbahydrate, and protein.			1 1	
	10/11/29			1	
	1				
				1	

<sup>1/</sup> Research conducted in Agr. Chem. Dept.

Station	Title of project and date of approval	Project léaders	Cooperation	Financial	sumort
			,	Purnell	State
Okla.	1/Comparison of the mineral metabolism and food intake of the underweight college woman with that of the average and overweight woman.  10/14/29	C. M. Coons		400	
- <b>ff</b>	1/ The quantitative determination of vitamins B and G. 12/6/29	R.St.Julian`	Agr. Chem.	1,737	
n .	A comparative study of the possibilities of economic contributions by farm home-makers in different agricultural districts of Oklahoma.  3/11/30	G. Fernandes		4,250	
Oreg.	The farm home. (a) Requirements for efficient management of the farm household; (b) Type of architecture, selec-	M.Wilson & F.A. Cuthbert	Landscape Architecture	4,985	
	tion of site, house plan arrangement and landscape; (c) Relation of house to other buildings, the farm- stead and the farm.				
п	4/30/30  Baking of pearsStandardization of household practice as applied to the baking of Bosc, Anjou, and Comice pears. 9/9/30	A. Kolshorn	Horticulture	1,035	
				t	9 9 0 0 0 0 0

<sup>1/</sup> Research conducted in Agr. Chem. Dept.

Station	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Purnell	State
	done by the rural Rhode Island homemaker and some of its effects upon her and her home.	M.Whittemore & B.M. Kuschke	N.C.P. 4, IV	2,500	
	for table use as affect— ed by (a) method of fer- tilization, (b) variety: of potatoes. 5/8/28			500	"
	Revised 6/3/29 Influence of ferti- lizer treatment on the vitamin content of spinach. 5/26/28	M.Whittemore, B.M.Kuschke, & J.B. Smith	N.C.P. 3 Chemistry P. State	1,000	
	The form and proportions giving satisfact- bry results in utensils used in the household for pouring. 5/6/29	M. Whittemore	College N.C.P. 4,III	1,500	
	The diet and mutrition of rural school children in South Carolina. 12/12/29	M. E. Frayser & A.M. Moser		2,000	
<b>n</b> .	Not yet allotted.	i 1		3,750	
So.Dak.	A study of the vitamin C content of carrotshome-canned vs.preserved in sand. 7/23/30	G.E. Wasson	N.C.P. 3	3,120	
Ħ	The influence of various grades of wool on some of the physical properties of flannel.	A Halgrim		2,180	
n .	Not yet submitted	E. Fierson		1,363	

Station	Title of project and date of approval	Project leaders	Cooperation	Financia	al support
				Purnell	State
Tenn.	The nature, origin, and function of bios.	M.B.MacDonald		5,050	
Ħ	11/9/25 Home utilization of the sweet potato as a	G. A. Shuey		2,250	
	source of sirup. 7/30/30				
Tex.	Adequacy of the diet of Texas school child-	J. Whitacre			
Ħ	ren. 10/20/27 The influence of Texas sunlight on the durability and color of	M. Grimes		4,800	
Ħ	cotton fabrics. 1/21/28 Growth in height and	J. Whitacre &		6,530	
	weight of Texas school children. 6/4/28	E. Terrill			
Utah	Food habits of element- ary rural school child- ren in relation to their physical well-		• • • • • • • • • • • • • • • • • • • •	3,930	,
Ħ	being. 6/24/29  The physical curd character of milk and its relationship to the di-	R.L. Hill <u>1</u> /		750	
	gestibility and food value of milk for infants. 6/24/29				
n	Physical curd character of evaporated milk. 4/4/30	R. L. Hill <u>1</u> /		500	
Vt.	Study of methods of household budgeting and	M. Muse & I. Gillum.		1,035	
Ħ	accounting. 11/23/25 The standard of living of Vermont farm families. 8/9/29	M. Muse & I. Gillum	N.C.P. 4, IV	1,645	

<sup>1/</sup> Department of Human Nutrition.

Station	Title of project and date of approval	Project leaders	Cooperation	Financia	l suppor
				Purnell	State
Vt.	Food consumption of farm families of Ver-mont. 1/10/30	M.Muse & I. Gillum	N.C.P. 4, I	2,585	f
<b>f1</b>	The extent of the cash contribution made by the farm home maker to the total farm income.	M. Muse & I. Gillum	N.C.P. 4, IV	1,585	· · · · · · · · · · · · · · · · · · ·
ft	5/15/30 The time and energy expenditure in farm kitchen work. 5/15/30	M. Muse &. I. Gillum	N.C.P. 4,III	2,210	
Va.	The cooking quality and palatability of soft pork. 6/4/29	I. M. Bailey	N.C.P. 6, Animal Hus- bandry	1,800	
<b>8</b> 9	Rural family living: Content, adequacy, and conditioning factors. 12/14/29	I. M. Bailey	N.C.P. 4, IV	4,200	
fl	Home laundering investigations. 7/22/30	P.B. Potter 1	,	2,150	
11	An investigation of the reliability of oven regulators. 7/22/30	P.B. Potter 1	1	600	
Wash.	Standards of cooking vegetables in the electric oven. 10/24/28	V.W. Swartz	N.C.P. 4,III Agr. Engl	1,500	100
fī	Efficiency of home laundry plant.	E.H. Roberts	N.C.P. 4,III Agr. Eng.	1,700	100
<b>f</b> f	10/24/28  Human energy cost of various household tasks. 7/8/30	E.H. Roberts		1,700	
fi	The vitamin C content of Washington apples.	M. Potter & L. W. Hunt	N.C.P. 3 Horticulture Chemistry	400	
lī'	Project not yet sub-	V.W. Swartz	OHOMES OF Y	17,500	

<sup>1/</sup> Department of Agricultural Engineering.

Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support
£ 1				Purnell	State
W. Va.	A study of the rela-	H. C. Cameron		5,280	
	tion of lipoids, particularly cholesterol,				8.46
i i	to the incidence of	1 1 4			
,	respiratory and middle-	Salinik			27
· ·	ear infections occurring	· ·		1 T - D	
	on vitamin A-deficient			3 242	
	diets. 1/28/29				
Wis.	The metabolism of pro-	H. Pargong &		3,565	1,800
	tein, particularly as			5,005	1,000
ì	influenced by pregnancy		in artely	ar roan in	
	and lactation.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aurum vir er ann d		
n	11/27/29		CALLY 19		
1	A study of the farmers standard of living:		N.C.P. 4, IV		
· • • • • • • • • • • • • • • • • • • •	Content, adequacy, and	E.L.Kirkoat-	Agr. Econ. Rural Sociology		The state of the s
	conditioning factors.	P.E.McNall &	indian pociology		*****
3	10/18/29	M.L. Cowles	Lagran of grant again	1,250	500
16		*			
Wyo.	Baking qualities and	E.J.McKittrick		852	
1	methods of baking Wyo-	[ 시험 1년 : 1	Openius of the control		Acres
11	ming flour. 1/25/25 A study of the time	E.J.McKittrick		07.5	
	required for cooking	MCAICCPIEK	La transfer of the second	813	
į	winter vegetables at	E.J. Thiessen	Property of the property	- 25 - 5	
	high altitudes.		Marie de la companya de la companya Basar		
ff .	1/6/30	100			
	Comparison of the cul-			1,535	
	inary properties of dry land and irrigated po-		paratriario de la Mile		
	2/26/30	in the same	has near to and	14 - 4 - 4	
m .	The effect of storage:		N.C.P. 3	1,605	
	upon the vitamin C con-			The same of the sa	
. 2	tent of Wyoming dry land	F.J. Thiessen	The firmed file who are to be a	1	
2 9	and irrigated potatoes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		
	(Bliss Triumph). 3/25/30	Proceedings of the second			
	7,20,00	1		1	

Supplement, June 1, 1931.

Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support1
				Purnell	State
Ga.	The vitamin A and G content of frozen milk. 2/19/31	L. Ascham	N.C.P. 3		
II	The standard of living in an industrial center as compared with that in a rural community.  2/20/31	L. Aschem	N.C.P. 4,IV		
Hawaii.	Chemical and Biological studies of the Opihi (Helcioniscus exeratus and H. argentatus) 5/26/31	C.D. Miller R.C. Robbins		Adams funds	1
Mich.	Study of practices and attitudes of farm familles relative to insurance. 12/6/30	I.H. Gross	N.C.P. 4,IV		
Miss.	Studies in nutritional anemia. 1. Value of sorghum and sugar cane in nutritional anemia.  2. Nature of the substances present in sorghum and sugar cane sirups and black strap molasses which are effective in nutritional anemia.  3. Sources of iron and copper present in sorghum and sugar cane sirup.  Revised 11/24/30				

<sup>1/</sup> Information incomplete.

Supplement, June 1, 1931.

	Station	Title of project	Project	Cooperation	Financial	support
	D GAULOII	and date of approval	leaders	oopstavion	Purnell	State
	Mont.	Selection, care and wearing quality of women's hosiery. 3/9/31	J.E.Richardson	n (40 km) (ka t		gant for the
*	Nebr.	The relation of draft to performance of kero-sene burners on kerosene		N.C.P.4,III		
₩	n .	cook stoves. 1/15/31 Study of electric cook ing stoves. 1/15/31	\$ 1.45 \$1	N.C.P. 4,III		*
	II .	A study of the family history and standards of living of farm families in selected districts of Nebraska. 1/28/31		N.C.P. 4,IV		
	N.Mex.	The vitamin B and G content of New Mexico pinto beans. The effect of different methods of cooking and the effect of aging upon the content of these vitamins.  5/21/31	M.L. Green- wood	N.C.P. 3		
	Okla.	Comparison of basal metabolism in overweight, underweight, and average weight college women. 12/20/30	C.M. Coons			
	R. I.	Comparison of methods of refrigeration in rural homes in Rhode Island 5/4/31	M.Whittemore & B.M. Kuschke	N.C.P. 4, II	I	

## Supplement, June 1, 1931.

Station	Title of project and date of approval	Project leaders	Cooperation	Financial	support
20202011	and dave or approvat	readers		Purnell	State
S. Dak.	A study of the vitamin C content of fresh as- paragus. 5/4/31	G.E. Wasson	N.C.P. 3		
Wash.	Bactericidal effect- iveness of home launder- ing methods for rayon and silk. 4/24/31				